Docket No. 108172-00022

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

Nikaido, Marmelstein, Murray & Oram Intellectual Property Group

Declaration For U.S. Patent Application

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled (Insert Title) GENES OF CAROTENOID BIOSYNTHESIS AND METABOLISM AND METHODS OF USE THEREOF

tl	ne specification	n of which is attached	hereto unless the fo	llowing box is chec	ked:		
	was f	was filed on June 2, 1999			As PCT International A	pplication	
	Num	ber PCT/US99/121	21 and	was amended on			
a	nd/or was f	iled on December	4, 2000		As U.S. Patent Applicat	ion	
	Numi	ber		was amended on	· · · · · · · · · · · · · · · · · · ·		
b I I c b	y any amendmacknowledge hereby claim ertificate, or { elow and have	nent referred to above, the duty to disclose in foreign priority bene §365(a) of any PCT I	formation which is a fits under 35 U.S.C nternational applicational applicational applications for eight application and foreign applications.	material to patentab C. §119(a)-(d) or §3 tion which designa tion for patent or in	ility as defined in 37 C.F. 365(b) of any foreign app ted at least one country of	including the claim(s), as amende R. §1.56. blication(s) for patent or inventor other than the United States, liste T International Application havin	
	Ü	••	•	•		Priority Claimed	
₂ 01 1003.					•	☐ Yes ☐ No	
	(List prior	(Number)	(Country)	(Day	/Month/Year Filed)	-	
ŧ۵	foreign applications)					☐ Yes ☐ No	
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Ō			•	•		☐ Yes ☐ No	
		(Number)	(Country)	(Day	/Month/Year Filed)		
	hereby claim	(Application Number)		y United States pro (Filing		ed below.	
		(Application Number)		(Filing	Date)		
		☐ See	attached list for add	litional prior foreig	n or provisional applicatio	ons.	
I d d d	esignating the isclosed in the uty to disclose	United States of Ame	erica listed below as U.S. or PCT) in the material to patenta	nd, insofar as the s manner provided b bility as defined in	ubject matter of each of t by the first paragraph of 3. 37 C.F.R. §1.56 which b	ny PCT International application(she claims of this application is not 5, U.S.C. §112, I acknowledge the process available between the filing the control of	
(I	st prior U.S. 09/088,724			June 2, 1998			
A	pplications or CT International	ons or (Application Serial No.)		(Filing Date) June 2, 1998	(Status) (patented, pending, abandoned)	
ap	plications	(Application Se	erial No.)	(Filing Date)	(Status) (patented, pending, abandoned)	

And I hereby appoint the firm of Arent Fox, Customer Number 004372 including as principal attorneys: Robert B. Murray, Reg. No. 22,980; Charles M. Marmelstein, Reg. No. 25,895; George E. Oram, Jr., Reg. No. 27,931; Douglas H. Goldhush, Reg. No. 33,125; David T. Nikaido, Reg. No. 22,663; Richard J. Berman, Reg. No. 39,107; King L. Wong, Reg. No. 37,500; James A. Poulos, III, Reg. No. 31,714; Murat Ozgu, Reg. No. 44,275; Robert K. Carpenter, Reg. No. 34,794; Gregory B. Kang, Reg. No. 45,273; Rustan Hill, Reg. No. 37,351; Carl Schaukowitch, Reg. No. 29,211; Kevin Turner, Reg. No. 43,437; Rhonda C. Barton, Reg. No. P47,271 and Hans J. Crosby, Reg. No. 44,634.

Please direct all communications to the following address:

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC 1050 Connecticut Avenue, N.W., Suite 600 Washington, D.C. 20036-5339 Telephone No. (202) 857-6000; Facsimile No. (202) 638-4810 The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be take in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	Full name of sole or first inventor Francis X. CUNNINGHAM, Jr. Inventor's signature		_
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	Residence 2727 Washington Avenue, Chevy Chase, MD 20815		
	Citizenship American		
	Post Office Address Same as the above		
7.00	Full name of sole or second inventor Zairen SUN		_
1	Inventor's signature 3 mm	V10/2001	
		Date	
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	Citizenship permant resident, Rockville MD 2085 Post Office/Address Same as the above	2 M)	ø
	Chinese, P.R. china		
	Full name of sole or third inventor		
	Inventor's signature	<u> </u>	
		Date	
	Residence		
	Citizenship	·	
	Post Office Address		
			_

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC Nikaido, Marmelstein, Murray & Oram Intellectual Property Group

Declaration For U.S. Patent Application As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below my name.

	names are liste	d below) of	l, first and sole the subject mat	inventor (if onl ter which is clair	y one name is lis ned and for which ESIS AND META	ted below) or an a patent is soug	tht on the inve	ntion entit l	
	(miscre rine)	OLIVES C	T CAROTENO	ID BIOSTNIII	2313 AND META	BOLISM AND	METHODS O	F USE IT	IEREOF
-	the specificatio	n of which	is attached here	to unless the follo	owing box is chec	ked:	·		
	_		June 2, 1999			As PCT Intern	ational Applic	ation	
	Num		T/US99/12121		as amended on				
		_	December 4, 20			As U.S. Patent	t Application		
	Num	ber		and w	as amended on				•
	by any amendn I acknowledge I hereby claim certificate, or a below and have	nent referre the duty to foreign pr §365(a) of also ident	d to above. disclose informationity benefits usen PCT International below any	ation which is ma under 35 U.S.C. ational application foreign application	aterial to patentabi §119(a)-(d) or §3 on which designat on for patent or ir	lity as defined in 655(b) of any for ed at least one	n 37 C.F.R. § oreign application	1.56. ion(s) for j than the U	aim(s), as amended patent or inventor's Juited States, listed Application having
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all make the	I hereby claim			. '	United States pro		ion(s) listed be	clow.	
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th Pi	(Application Number)			oer)	(Filing Date)		· · · · · · · · · · · · · · · · · · ·		
Hands B. Hanne march Small	See attached list for additional prior foreign or provisional applications.								
10.	designating the disclosed in the duty to disclose	United State prior applications of the contraction	ites of America ication(s) (U.S. on which is mate	listed below and or PCT) in the n erial to patentabi	l, insofar as the su nanner provided b	ubject matter of y the first parag 37 C.F.R. §1.56	each of the claraph of 35, U. 6 which becan	aims of thi S.C. §112	tional application(s) is application is not , I acknowledge the between the filing
	(List prior U.S.	09/0	088,724		June 2, 1998				
	Applications or		plication Serial	No.)	(Filing Date)		(Status) (pater	ted, pendir	ng, abandoned)
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	applications designating the U.S		plication Serial	No.)	(Filing Date)		(Status) (paten	ited, pendii	ng, abandoned)
) [~]	And I hereby appoint the firm of Arent Fox, Customer Number 004372 including as principal attorneys: Robert B. Murray, Reg. No. 22,980; Charles M. Marmelstein, Reg. No. 25,895; George E. Oram, Jr., Reg. No. 27,931; Douglas H. Goldhush, Reg. No. 33,125; David T. Nikaido, Reg. No. 22,663; Richard J. Berman, Reg. No. 39,107; King T. Wong, Reg. No. 37,500; James A. Poulos, III, Reg. No. 31,714; Murat Ozgu, Reg. No. 44,275; Robert K. Carpenter, Reg. No. 34,794; Gregory B. Kang, Reg. No. 45,273; Rustan Hill, Reg. No. 37,351; Carl Schaukowitch, Reg. No. 29,211; Kevin Turner, Reg. No. 43,437; Rhonda C. Barton, Reg. No. 14,634. Please direct all communications to the following address: ARENT FOX KINTNER PLOTKIN & KAHN, PLLC								
		. communic	actions to the for	/ Aug address.	1050 Connectici Washington, D. Telephone No.	ut Avenue, N.W C. 20036-5339	'., Suite 600		-4810

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be take in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor Francis X. CUNNINGHAM, Jr.	F./. // 0:
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	Date
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Citizenship	
Post Office Address Same as the above	
Janie as the above	
Full name of sole or third inventor	
Inventor's signature	
	Date
Residence	
Citizenship	
Post Office Address	